

Notice of Allowability

Application No.

09/838,343

Applicant(s)

HAYASHI ET AL.

Examiner

Art Unit

Hsien-Ming Lee

2823

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/19/04.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ The ^{corrected} drawings filed on 13 June 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Remarks

1. 103(a) rejection to claims 1-9 is withdrawn.
2. Claims 1-9 are pending in the application.
3. IDS filed 1/9/03 has been considered by the examiner, as set forth in this Office Action.

Allowable Subject Matter

4. Claims 1-9 are allowed.
5. The following is an examiner's statement of reasons for allowance:

The prior art of record, Brinker et al. (US 6,387,453), teaches a method for vaporization of liquid of organic feedstock made of an organic oligomer (col. 6, lines 28-30) capable of forming an organic polymer insulation film (i.e. a low dielectric constant film, col. 2, lines 65-67), which comprises:

- mixing the liquid organic feedstock with solvent, surfactant form a mixed fluid (col. 11, claim1);
- spraying, using spray-coating technique (col. 2, lines 25-29) the mixed fluid on a substrate;
- heating the mixed fluid (col. 11, claim 2); and
- vaporizing (i.e. evaporating) the liquid organic feedstock (col. 11, claim 1).

In re claims 1 and 5, Brinker et al. neither teach nor suggest mixing the liquid organic feedstock *with a carrier gas* at a temperature *lower than a heat polymerization reaction starting temperature of the liquid organic feedstock* to form a gas-liquid mixed fluid; spraying the gas-

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fluid mixed fluid on a vaporization vacuum chamber to form *an aerosol of the liquid organic feedstock and heating the aerosol*.

In re claim 9, Brinker et al. neither teach nor suggest providing a vaporization device for *heating an aerosol of liquid organic feedstock to vaporize the liquid organic feedstock* to form *vaporized organic feedstock*; and connecting the vaporizing device directly to a plasma polymerization reaction chamber.

In the examiner's opinion, it would not have been obvious to one of the ordinary skill in the art, at the time of the invention was made, to modify the prior-art method to arrive the instant invention.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hsien-Ming Lee whose telephone number is 571-272-1863. The examiner can normally be reached on M-F (9:00 ~ 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hsien-Ming Lee
Examiner
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April 26, 2004


